

## CLAIMS:

1. Apparatus for applying a tattoo mark to a hog prior to sending the hog to market, comprising:

a confining cage into which the hog can enter and from which the hog  
5 can leave;

at least one confining gate assembly operable to retain the hog within the confining cage until released;

a tattoo head having marking members thereon by which impact of the tattoo head on the skin of the hog applies a tattoo mark to the skin;

10 a drive mechanism for driving movement of the tattoo head for impacting the skin, the drive mechanism being mounted on the confining cage

and a control unit for controlling operation of the gate assembly and the drive mechanism for releasing the hog from the confining cage when the tattoo mark has been applied.

15 2. The apparatus according to Claim 1 wherein the drive mechanism includes an air cylinder.

3. The apparatus according to Claim 1 wherein the drive mechanism includes a cylinder which is mounted transversely to a wall of the confining cage and the tattoo head is mounted on a piston rod of the cylinder so as  
20 to move longitudinally of an axis of the cylinder from a position adjacent the wall to a position away from the wall for contacting the hog.

4. The apparatus according to Claim 1 wherein the tattoo head is

mounted on an arm which is pivotal relative to a wall of the confining cage so as to move the tattoo head from a position adjacent the wall to a position away from the wall for contacting the hog.

5        5.        The apparatus according to Claim 1 wherein the tattoo head is carried on a float spring assembly allowing movement of the tattoo head relative to the drive mechanism to accommodate different locations and/or dimensions of the hog within the confining cage.

10       6.        The apparatus according to Claim 1 wherein there is provided an ink applicator for applying ink to the tattoo head, the ink applicator being arranged to engage the tattoo head by movement of the tattoo head to the retracted position.

7.        The apparatus according to Claim 1 wherein the tattoo head and the drive mechanism are carried on a mounting assembly separate from the confining cage and arranged to be mounted on the confining cage.

15       8.        The apparatus according to Claim 1 wherein the tattoo head is located at a rear of the confining cage to engage the hog at the rear tending to encourage the hog forwardly to exit the confining cage through the gate assembly at the front of the confining cage.

9.        Apparatus for applying a tattoo mark to a hog prior to sending the hog to market, comprising:

20                a confining cage into which the hog can enter and from which the hog can leave;

              a weigh scale for detecting a weight of the hog while in the confining

cage;

at least one confining and sorting gate assembly;

a control unit for operating the gate assembly;

the control unit being arranged to operate the gate assembly to retain  
 5 the hog within the confining cage until released while the hog is weighed by the  
 weigh scale

the control unit being arranged, in response to determination of a hog  
 weight above a predetermined limit, to operate the gate assembly to sort the hog  
 into a market pen;

10 the control unit being arranged, in response to determination of a hog  
 weight below a predetermined limit, to operate the gate assembly to sort the hog into  
 a retaining pen;

a tattoo head having marking members thereon by which impact of the  
 tattoo head on the skin of the hog applies a tattoo mark to the skin;

15 and a drive mechanism for driving movement of the tattoo head from a  
 retracted position to an operating position for impacting the skin, the drive  
 mechanism being mounted at the confining cage.

the control unit being arranged, in response to the determination of a  
 hog weight above the predetermined limit, to operate the drive mechanism to apply  
 20 the tattoo head to the skin to apply the mark to the hog for market.

10. The apparatus according to Claim 9 wherein the drive  
 mechanism includes an air cylinder.

11. The apparatus according to Claim 9 wherein the drive mechanism includes a cylinder which is mounted transversely to a wall of the confining cage and the tattoo head is mounted on a piston rod of the cylinder so as to move longitudinally of an axis of the cylinder from a position adjacent the wall to a position away from the wall for contacting the hog.

12. The apparatus according to Claim 9 wherein the tattoo head is mounted on an arm which is pivotal relative to a wall of the confining cage so as to move the tattoo head from a position adjacent the wall to a position away from the wall for contacting the hog.

13. The apparatus according to Claim 9 wherein the tattoo head is carried on a float spring assembly allowing movement of the tattoo head relative to the drive mechanism to accommodate different locations and/or dimensions of the hog within the confining cage.

14. The apparatus according to Claim 9 wherein there is provided an ink applicator for applying ink to the tattoo head, the ink applicator being arranged to engage the tattoo head by movement of the tattoo head to the retracted position.

15. The apparatus according to Claim 9 wherein the tattoo head and the drive mechanism are carried on a mounting assembly separate from the confining cage and arranged to be mounted on the confining cage.

16. The apparatus according to Claim 9 wherein the tattoo head is located at a rear of the confining cage to engage the hog at the rear tending to encourage the hog forwardly to exit the confining cage through the gate assembly at

the front of the confining cage.

17. Apparatus for applying a tattoo mark to a hog prior to sending the hog to market, comprising:

a tattoo head having marking members thereon by which impact of the  
5 tattoo head on the skin of the hog applies a tattoo mark to the skin;

a drive mechanism for driving movement of the tattoo head for  
impacting the skin;

and a mounting assembly supporting the tattoo head and the drive  
mechanism arranged for mounting on a confining cage for receiving the hog;

10 the drive mechanism being operable by a control unit for controlling  
operation of a gate assembly of the confining cage for releasing the hog from the  
confining cage when the tattoo mark has been applied.

18. The apparatus according to Claim 17 wherein the drive  
mechanism includes an air cylinder.

15 19. The apparatus according to Claim 17 wherein the drive  
mechanism includes a cylinder which on the mounting assembly so as to be carried  
transversely to a wall of the confining cage and the tattoo head is mounted on a  
piston rod of the cylinder so as to move longitudinally of an axis of the cylinder from  
a position adjacent the wall to a position away from the wall for contacting the hog.

20 20. The apparatus according to Claim 17 wherein the tattoo head is  
mounted on an arm which is pivotal relative to the mounting assembly so as to move  
the tattoo head from a position adjacent the mounting assembly to a position away

from the mounting assembly for contacting the hog.

21. The apparatus according to Claim 17 wherein the tattoo head is carried on a float spring assembly allowing movement of the tattoo head relative to the drive mechanism to accommodate different locations and/or dimensions of the hog within the confining cage.

22. The apparatus according to Claim 17 wherein there is provided an ink applicator for applying ink to the tattoo head, the ink applicator being arranged to engage the tattoo head by movement of the tattoo head to the retracted position.